

COPY OF PAPERS
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SEQUENCE LISTING

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<120> Fusion Proteins for Targeted Delivery of Antimicrobial Peptides

<130> 22851-033

<150> US 09/378,577

<151> 1999-08-20

<160> 15

<170> PatentIn version 3.1

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Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys Phe

1 5 10

cac gag aag cac cac tcg cac aga gga tac tct ggt ggc ggt ggc tcg 158

His Glu Lys His His Ser His Arg Gly Tyr Ser Gly Gly Gly Ser

15 20 25 30

ggc gga ggt ggg tcg ggt ggc ggc gga tcc gac gtg aag ctt gtg gag 206

Gly Gly Gly Ser Gly Gly Ser Asp Val Lys Leu Val Glu

35 40 45

tct ggg gga ggc tta gtg aac cct gga ggg tcc ctg aaa ctc tcc tgt 254

Ser Gly Gly Léu Val Asn Pro Gly Ser Leu Lys Leu Ser Cys

50 55 60

gca gcc tct gga ttc act ttc agt agc tat acc atg tct tgg gtt cgc 302

Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr Thr Met Ser Trp Val Arg

65 70 75

cag act ccg gag aag agg ctg gag tgg gtc gca tcc att agt agt ggt 350

Gln Thr Pro Glu Lys Arg Leu Glu Trp Val Ala Ser Ile Ser Ser Gly

80 85 90

ggt act tac acc tac tat cca gac agt gtg aag ggc cga ttc acc atc 398

Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val Lys Gly Arg Phe Thr Ile

95 100 105 110

tcc aga gac aat gcc aag aac acc ctg tac ctg caa atg acc agt ctg 446

Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met Thr Ser Leu

115 120 125

aag tct gag gac aca gcc atg tat tac tgt tca aga gat gac ggc tcc 494

Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ser Arg Asp Asp Gly Ser

130 135 140

tac ggc tcc tat tac tat gct atg gac tac tgg ggt caa gga acc tca 542

Tyr Gly Ser Tyr Tyr Tyr Ala Met Asp Tyr Trp Gly Gln Gly Thr Ser

145 150 155

gtc acc gtc tct tca gct agc 563

Val Thr Val Ser Ser Ala Ser

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Lys His His Ser His Arg Gly Tyr

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Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val

50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr

65 70 75 80

Leu Gln Met Thr Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys

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Lys Arg Leu Phe Lys Glu Leu Lys Phe Ser Leu Arg Lys Tyr

1 5 10

tct ggt ggc ggt ggc tcg ggc gga ggt ggg tcg ggt ggc ggc gga tcc 158

Ser Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser Gly Gly Ser

15 20 25 30

gac gtg aag ctt gtg gag tct ggg gga ggc tta gtg aac cct gga ggg 206

Asp Val Lys Leu Val Glu Ser Gly Gly Leu Val Asn Pro Gly Gly

35 40 45

tcc ctg aaa ctc tcc tgt gca gcc tct gga ttc act ttc agt agc tat 254

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr

50 55 60

acc atg tct tgg gtt cgc cag act ccg gag aag agg ctg gag tgg gtc 302

Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val

65 70 75

gca tcc att agt agt ggt ggt act tac acc tac tat cca gac agt gtg 350

Ala Ser Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val

80 85 90

aag ggc cga ttc acc atc tcc aga gac aat gcc aag aac acc ctg tac 398

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr

95 100 105 110

ctg caa atg acc agt ctg aag tct gag gac aca gcc atg tat tac tgt 446

Leu Gln Met Thr Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys

115 120 125

tca aga gat gac ggc tcc tac ggc tcc tat tac tat gct atg gac tac 494

Ser Arg Asp Asp Gly Ser Tyr Gly Ser Tyr Tyr Ala Met Asp Tyr

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Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Thr Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val
35 40 45

Ala Ser Ile Ser Ser Gly Gly Thr Tyr Thr Tyr Tyr Pro Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Thr Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys

85 90 95

Ser Arg Asp Asp Gly Ser Tyr Gly Ser Tyr Tyr Ala Met Asp Tyr

100 105 110

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala Ser

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aagcaccact cgcacagagg atac

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<223> Primer 988

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cggatccgac gtgaagcttg tggagtc

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69

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65

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